

ET Series

15-29.9 kW | Three phase | Up to 3 MPPTs
Hybrid Inverter (HV)

The GoodWe ET 15kW-29.9kW Series inverter is ideal for residential, small to medium commercial and industrial applications. As the core of an energy storage solution, the ET inverter massively lowers energy costs by efficiently storing the solar power for flexible use and increasing self-consumption. Peak shaving balances power demand and grid power imported, to effectively reduce extra grid demand for the most cost-effective use for your property. When paired with the GoodWe Home F Series battery, this offers a one-stop shop solution for Three Phase systems. This series is available in 15kW, 20kW, 25kW and 29.9kW models.



Smart Control & Monitoring

- Integrated dry contact for external loads
- Peak shaving



Friendly & Thoughtful Design

- Elegant and compact design
- Plug & Play installations



Superb Safety & Reliability

- Type II SPD on DC side
- AFCI optional¹



Flexible & Adaptable Applications

- Max 15A DC input current per string
- Up to 200% DC input oversizing

¹: Optional functions or devices are purchased separately.

Technical Data		GW15K-ET	GW20K-ET	GW25K-ET	GW29.9K-ET
Battery Input Data					
Battery Type				Li-Ion	
Nominal Battery Voltage (V)				500	
Battery voltage range (V)				200 ~ 800	
Start-up Voltage (V)				200	
Number of Battery Input	1	1	2	2	
Max. Continuous Charging Current (A)	50	50	50 × 2	50 × 2	
Max. Continuous Discharging Current (A)	50	50	50 × 2	50 × 2	
Max. Charging Power (W)	15000	20000	25000	30000	
Max. Discharging Power (W)	15000	20000	25000	30000	
PV String Input Data					
Max. Input Power (W) ¹	30000	40000	50000	59800	
Max. Input Voltage (V) ²				1000	
MPPT Operating Voltage Range (V) ³				200 ~ 850	
Start-up Voltage (V)				200	
Nominal Input Voltage (V)				620	
Max. Input Current per MPPT (A)				30	
Max. Short Circuit Current per MPPT (A)				38	
Number of MPP Trackers	2	2	3	3	
Number of Strings per MPPT	2 / 2	2 / 2	2 / 2 / 2	2 / 2 / 2	
AC Output Data (On-grid)					
Nominal Output Power (W)	15000	20000	25000	29900	
Nominal Apparent Power Output to Utility Grid (VA)	15000	20000	25000	29900	
Max. Apparent Power Output to Utility Grid (VA) ^{3/9}	16500	22000	27500	29900	
Max. Apparent Power from Utility Grid (VA) ⁷	15000	20000	25000	30000	
Nominal Output Voltage (V)				380 / 400, 3L / N / PE	
Output Voltage Range (V) ⁴				0 ~ 300	
Nominal AC Grid Frequency (Hz)				50 / 60	
AC Grid Frequency Range (Hz)				45 ~ 65	
Max. AC Current Output to Utility Grid (A)	23.9	31.9	39.9	43.3	
Max. AC Current From Utility Grid (A) ⁸	21.7	29.0	36.2	43.3	
Nominal Output Current (A)	22.7	30.3	37.9	45.3	
Power Factor				~ 1 (Adjustable from 0.8 leading~0.8 lagging)	
Max. Total Harmonic Distortion				≤3.05%	
AC Output Data (Back-up)					
Back-up Nominal Apparent Power (VA)	15000	20000	25000	29900	
Max. Output Apparent Power without Grid (VA) ⁵	15000 (18000@60s, 24000@3s)	20000 (24000@60s, 32000@3s)	25000 (30000@60s)	30000 (36000@60s)	
Max. Output Apparent Power with Grid (VA)	15000	20000	25000	29900	
Max. Output Current (A)	22.7 (27.3@60s, 36.4@3s)	30.3 (36.4@60s, 48.5@3s)	37.9 (45.5@60s)	45.5 (54.5@60s)	
Nominal Output Voltage (V)				380 / 400	
Nominal Output Frequency (Hz)				50 / 60	
Output THDv (@Linear Load)				<3%	
Efficiency					
Max. Efficiency				98.0%	
European Efficiency				97.5%	
Max. Battery to AC Efficiency				97.5%	
MPPT Efficiency				99.9%	
Protection					
PV String Current Monitoring				Integrated	
PV Insulation Resistance Detection				Integrated	
Residual Current Monitoring				Integrated	
PV Reverse Polarity Protection				Integrated	
Battery Reverse Polarity Protection				Integrated	
Anti-islanding Protection				Integrated	
AC Overcurrent Protection				Integrated	
AC Short Circuit Protection				Integrated	
AC Overvoltage Protection				Integrated	
DC Switch				GHX6-55P	
DC Surge Protection				Type II	
AC Surge Protection				Type III	
AFCI				Optional	
General Data					
Operating Temperature Range (°C)				-35 ~ +60	
Relative Humidity				0 ~ 95%	
Max. Operating Altitude (m)				4000	
Cooling Method				Smart Fan Cooling	
User Interface				LED, WLAN + APP	
Communication with BMS				RS485 / CAN	
Communication with Meter				RS485	
Communication with Portal				WiFi + LAN + Bluetooth	
Weight (kg)	48	48	54	54	
Dimension (W × H × D mm)				520 × 660 × 220	
Noise Emission (dB)	<45	<45	<45	<60	
Topology				Non-isolated	
Self-consumption at Night (W) ⁶				<15	
Ingress Protection Rating				IP66	
Overvoltage Category				DC II / AC III	
Protective Class				I	
Mounting Method				Wall Mounted	
Country of Manufacture				China	

*1: Max. Input Power, not continuous for 1.5*normal power.

*2: For 1000V system, Maximum operating voltage is 950V.

*3: According to the local grid regulation.

*4: Output Voltage Range: phase voltage.

*5: Can be reached only if PV and battery power is enough.

*6: No Back-up Output.

*7: When the load is connected to the inverter's backup port, the Max. Apparent Power from Utility Grid can reach to 22.5K for GW15K-ET, 30K for GW20K-ET,

33K for GW25K-ET, 33K for GW29.9K-ET, and 33K for GW30K-ET respectively.

*8: When the load is connected to the inverter's backup port, the Max. AC Current From Utility Grid can reach to 34A for GW15K-ET, 45A for GW20K-ET, 50A for GW25K-ET, 50A for GW29.9K-ET, and 50A for GW30K-ET respectively.

*9: For Austria, Max. Output Power (W) is 15K for GW15K-ET, 20K for GW20K-ET, 25K for GW25K-ET, 29.9K for GW29.9K-ET, and 30K for GW30K-ET.

*: Please visit GoodWe website for the latest certificates.

*: All pictures shown are for reference only. Actual appearance may vary.

**: Please refer to the user manual for the MPPT Voltage Range at Nominal Power.